

FORM PTO-1449 (Rev 8/83) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Atty. Docket No.:	Appl'n No.:
	MP1725-US2	As yet unknown
	Applicant:	
	Mehan et al.	
	Filing Date:	Group:
	Herewith	As yet unknown

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
SY	4,018,733	04/1977	Lopez et al.	260	27 EV	
↓	4,083,902	04/1978	Clyde	264	26	
↓	4,145,332	03/1979	Coxon	260	42.52	
↓	4,181,755	01/1980	Corke	428	348	
↓	4,332,975	06/1982	Dienes	174	76	
↓	4,434,320	02/1984	Klein et al.	174	23 R	
↓	4,456,784	06/1984	Klein	174	23 R	
↓	4,565,944	01/1986	Beurskens et al.	313	318	
↓	4,622,488	11/1986	Beurskens et al.	313	318	
SY	4,654,473	03/1987	Roux et al.	174	84 R	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
SY	2 525 811 A1	10/1983	France			Yes
↓	915,134	10/1946	France			No
↓	1 589 256	02/1970	Germany			Yes
SY	1 958 307	01/1971	Germany			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)
SY	Henry R. Lasman, Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 532-565, 1985	
↓	International Search Report for International Application No. PCT/US02/24570, dated December 30, 2002.	
↓	Patent Abstracts of Japan, vol. 008, no. 243 (E-277), 8 November 1984 & Japanese Publication No. JP 59-121764A (Mitsubishi Denki KK), 13 July 1984 (abstract only). The actual patent document is listed above.	
↓	Product Brochure, "Introduction to Expancel Microspheres," January 1997	
↓	Product Specification, Expancel, Inc., November 1998	
↓	Rhomie L. Heck, III, et al., Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 438-445, 1985	
↓	Technical Bulletin No. 24, "Expancel in Thermoplastics," Expancel, Inc., pgs. 2-3, undated	
SY	Technical Bulletin No. 30, "Expancel Microspheres in Injection Moulded Shoe Soles," Expancel, Inc., pgs. 2-5, undated	

/Samchuan Yao/ Examiner's signature	10/16/2006 Date considered
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SY	4,685,683	08/1987	Hall et al.	277	1	
↓	4,687,965	08/1987	Sanders et al.	313	318	
	4,888,519	12/1989	Borgis	313	318	
	4,963,698	10/1990	Chang et al.	174	77 R	
	4,963,785	10/1990	Takagi et al.	313	318	
	4,965,410	10/1990	Spector	174	78	
	4,988,912	01/1991	Borgis	313	318	
	4,990,821	02/1991	Blaisdell et al.	313	112	
	5,008,587	04/1991	Borgis	313	318	
SY	5,160,465	11/1992	Soderberg	264	46.5	

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* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
SY	923,402	04/1963	Great Britain			No
↓	936,481	09/1963	Great Britain			No
	1,012,108	12/1965	Great Britain			No
	1,060,297	03/1967	Great Britain			No
	1,139,266	01/1969	Great Britain			No
	WO 97/47681	12/1997	International			Yes
	WO 98/28359	07/1998	International			Yes
	53-135190	11/1978	Japan			No
	59-121764	07/1984	Japan			Yes
	3-112034	05/1991	Japan			No
	9[1997]-100447	04/1997	Japan			Yes
	63[1988]-55847	03/1988	Japan			Yes
	10[1998]-40876	02/1998	Japan			Yes
	56[1981]-9932	01/1981	Japan			Yes
SY	56[1981]-9931	01/1981	Japan			Yes

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SY	5,212,208	05/1993	Soderberg	521	96	
	5,242,750	09/1993	Wagner et al.	428	316.6	
	5,252,622	10/1993	DiStefano	521	65	
	5,287,894	02/1994	Shukushima et al.	138	140	
	5,312,872	05/1994	Vestberg et al.	525	324	
	5,322,972	06/1994	Fitch et al.	174	88 R	
	5,373,027	12/1994	Hanley et al.	521	84.1	
	5,385,951	01/1995	Soderberg	521	98	
	5,407,965	04/1995	Park et al.	521	81	
	5,772,310	06/1998	Cserteg et al.	362	225	
	5,791,927	08/1998	Iannone	439	280	
	5,931,474	08/1999	Chang et al.	277	316	
	5,979,902	11/1999	Chang et al.	277	316	
	6,011,351	01/2000	Schemm	313	493	
	6,103,152	08/2000	Gehisen et al.	264	45.4	
	6,107,574	08/2000	Chang et al.	174	77 R	
	6,114,004	09/2000	Cydzik et al.	428	81	
	6,118,076	09/2000	Damm et al.	174	77 R	
V	6,169,138 B1	01/2001	Petit et al.	524	500	
SY	6,398,900	06/2002	Hieda et al.	156	245	

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